

SEQUENCE LISTING

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FEB n 5 2003

TECH CENTER 1600/2900

Soto, Ana M. Sonnenschein, Carlos Geck, Peter Szelei, Jozsef

<120> A NOVEL ANDROGEN-INDUCED SUPPRESSOR OF CELL PROLIFERATION AND USES THEREOF

<130> MBI-008

<140> US 09/512,581 <141> 2000-02-24

<150> US 60/121,461 <151> 1999-02-24

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<170> PatentIn Ver. 2.0

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1 5 10 15

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Asp Ser Glu Glu Glu Lys Glu Leu Tyr Leu Asn Leu Ala Leu His Leu
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Ser Glu Glu Glu Lys Glu Leu Tyr Leu Asn Leu Ala Leu His Leu Ala 50 55 60

Ser Asp Phe Phe Leu Lys His Pro Gly Lys Asp Val Arg Leu Leu Val 65 70 75 80

Ala Cys Cys Leu Ala Asp Ile Phe Arg Ile Tyr Ala Pro Glu Ala Pro 85 90 95

Tyr Thr Ser Pro Asp Lys Leu Lys Asp Ile Phe Met Phe Ile Thr Arg
100 105 110

Gln Leu Lys Gly Leu Glu Asp Thr Lys Ser Pro Gln Phe Asn Arg Tyr 115 120 125

Phe Tyr Leu Leu Glu Asn Ile Ala Trp Val Lys Ser Tyr Asn Ile Cys 130 135 140

Phe Glu Leu Glu Asp Ser Asn Glu Ile Phe Thr Gln Leu Tyr Arg Thr 145 150 155 160 Leu Phe Ser Val Ile Asn Asn Gly His Asn Gln Lys Val His Met His 175

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Gln Glu Leu Leu Asp Thr Val Leu Val Asn Leu Val Pro Ala His Lys 205

Asn Leu Asn Lys Gln Ala Tyr Asp Leu Ala Lys Ala Leu Leu Lys Arg 210

Thr Ala Gln Ala Ile Glu Pro Tyr Ile Thr Thr Phe Phe Asn Gln Val 225

Asp Leu Met Leu Gly Lys Thr Ser Ile Ser Asp Leu Ser Glu His Val Phe 255

Asp Leu Ile Leu Glu Leu Tyr Asn Ile Asp Ser His Leu Leu Leu Ser 270

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Val Leu Pro Gln Leu Glu Phe Lys Leu Lys Ser Asn Asp Asn Glu Glu 275 280 285

Arg Leu Gln Val Val Lys Leu Leu Ala Lys Met Phe Gly Ala Lys Asp 290 295 300

Ser Glu Leu Ala Ser Gln Asn Lys Pro Leu Trp Gln Cys Tyr Leu Gly 305 310 315 320

Arg Phe Asn Asp Ile His Val Pro Ile Arg Leu Glu Cys Val Lys Phe 325 330 335

Ala Ser His Cys Leu Met Asn His Pro Asp Leu Ala Lys Asp Leu Thr 340 345 350

Glu Tyr Leu Lys Val Arg Ser His Asp Pro Glu Glu Ala Ile Arg His 355 360 365

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Ile Asp Asp Arg Leu Leu Val Glu Arg Ile Phe Ala Gln Tyr Met Val 450 460

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Phe Ser Ser Lys Glu Thr Gln Phe Ala Gln Ile Phe Glu Pro Leu His

Lys Ser Leu Asp Pro Ser Asn Leu Glu His Leu Ile Thr Pro Leu Val
755 760 765

B/

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Asp Glu Cys Tyr Gln Val Arg Gln Val Phe Ala Gln Lys Leu His Lys 915 920 925

Gly Leu Ser Arg Leu Arg Leu Pro Leu Glu Tyr Met Ala Ile Cys Ala 930 935 940

Leu Cys Ala Lys Asp Pro Val Lys Glu Arg Arg Ala His Ala Arg Gln 945 950 955 960

Cys Leu Val Lys Asn Ile Asn Val Arg Glu Tyr Leu Lys Gln His 965 970 975

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Pro Tyr Thr Ile His Leu Leu Ala His Asp Pro Asp Tyr Val Lys Val 995 1000 1005

Gln Asp Ile Glu Gln Leu Lys Asp Val Lys Glu Cys Leu Trp Phe Val 1010 1015 1020

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- Phe Ser Asn Thr Lys Asn Tyr Leu Pro Pro Glu Met Lys Ser Phe Phe 1105 1110 1115 1120
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- Glu Thr Val Ser Asn Ala Ser Ser Ser Ser Asn Pro Ser Ser Pro Gly 1155 1160 1165
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75 80 85

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						cat His											941
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	_	_		cgt Arg	_	_		-	_		-	_			_	2813
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				cat His												3053
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				gag Glu		_	_							_	_	3149

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Leu Tyr Thr Val Cys	gat gtt gcc atg aat Asp Val Ala Met Asn 1070 1	Ile Ile Met Ser Lys	
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734

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		gct Ala															2750
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	ggc Gly			-						_	-			t Al		_		2894
	ctt Leu 945										rg i						_	2942
	tgt Cys	_								g A:		_					ו	2990
	gca Ala									r L						r Val		3038
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Ala Pro Val His Ile Asp Thr Glu Ser Ile Ser Ala Leu Ile Lys Gln

Val Asn Lys Ser Ile Asp Gly Thr Ala Asp Asp Glu Asp Glu Gly Val Pro Thr Asp Gln Ala Ile Arg Ala Gly Leu Glu Leu Lys Val Leu Ser Phe Thr His Pro Ile Ser Phe His Ser Ala Glu Thr Phe Glu Ser Leu Leu Ala Cys Leu Lys Met Asp Asp Glu Lys Val Ala Glu Ala Ala Leu Gln Ile Phe Lys Asn Thr Gly Ser Lys Ile Glu Glu Asp Phe Pro His Ile Arg Ser Ala Leu Leu Pro Val Leu His His Lys Ser Lys Lys Gly Pro Pro Arg Gln Ala Lys Tyr Ala Ile His Cys Ile His Ala Ile Phe Ser Ser Lys Glu Ala Gln Phe Ala Gln Ile Phe Glu Pro Leu His Lys Ser Leu Asp Pro Ser Asn Leu Glu His Leu Ile Thr Pro Leu Val Thr Ile Gly His Ile Ala Leu Leu Ala Pro Asp Gln Phe Ala Ala Pro Leu Lys Ser Leu Val Ala Thr Phe Ile Val Lys Asp Leu Leu Met Asn Asp Arg Leu Pro Gly Lys Lys Thr Thr Lys Leu Trp Val Pro Asp Glu Glu Val Ser Pro Glu Thr Met Val Lys Ile Gln Ala Ile Lys Met Met Val Arg Trp Leu Leu Gly Met Lys Asn Asn His Ser Lys Ser Gly Thr Ser Thr Leu Arq Leu Leu Thr Thr Ile Leu His Ser Asp Gly Asp Leu Thr Glu Gln Gly Lys Ile Ser Lys Pro Asp Met Ser Arg Leu Arg Leu Ala Ala Gly Ser Ala Ile Val Lys Leu Ala Gln Glu Pro Cys Tyr His Glu Ile Ile Thr Leu Glu Gln Tyr Gln Leu Cys Ala Leu Ala Ile Asn Asp Glu Cys Tyr Gln Val Arg Gln Val Phe Ala Gln Lys Leu His Lys Gly Leu Ser Arg Leu Arg Leu Pro Leu Glu Tyr Met Ala Ile Cys Ala Leu Cys Ala Lys Asp Pro Val Lys Glu Arg Arg Ala His Ala Arg Gln Cys Leu Val Lys Asn Ile Asn Val Arg Arg Glu Tyr Leu Lys Gln His Ala Ala Val Ser Glu Lys Leu Leu Ser Leu Leu Pro Glu Tyr Val Val Pro Tyr Thr Ile His Leu Leu Ala His Asp Pro Asp Tyr Val Lys Val Gln Asp Ile Glu Gln Leu Lys Asp Val Lys Glu Cys Leu Trp Phe Val Leu Glu Ile Leu Met Ala Lys Asn Glu Asn Asn Ser His Ala Phe Ile Arg Lys Met Val Glu Asn Ile Lys Gln Thr Lys Asp Ala Gln Gly Pro Asp Asp Ala Lys Met Asn Glu Lys Leu Tyr Thr Val Cys Asp Val Ala

Met Asn Ile Ile Met Ser Lys Ser Thr Thr Tyr Ser Leu Glu Ser Pro 1075 1080 Lys Asp Pro Val Leu Pro Ala Arg Phe Phe Thr Gln Pro Asp Lys Asn Phe Ser Asn Thr Lys Asn Tyr Leu Pro Pro Gly Met Lys Ser Phe Phe Thr Pro Gly Lys Pro Lys Thr Thr Asn Val Leu Gly Ala Val Asn Lys Pro Leu Ser Ser Ala Gly Lys Gln Ser Gln Thr Lys Ser Ser Arg Met Glu Thr Val Gly Asn Ala Ser Ser Ser Ser Asn Pro Ser Ser Pro Gly Arg Ile Lys Gly Arg Leu Asp Ser Ser Glu Met Asp His Ser Glu Asn 1170 1175 Glu Asp Tyr Thr Met Ser Ser Pro Leu Pro Gly Lys Arg Ser Asp Lys 1185 1190 Arg Asp Asp Ser Asp Leu Val Arg Ser Glu Leu Glu Lys Pro Arg Gly Arg Lys Lys Thr Pro Val Thr Glu Arg Glu Glu Lys Leu Gly Met Asp Asp Leu Thr Lys Leu Val Gln Glu Gln Arg Pro Lys Gly Ser Gln Arg Ser Arg Lys Arg Gly His Thr Ala Ser Glu Ser Asp Glu Gln Gln Trp Pro Glu Glu Lys Arg Leu Lys Glu Asp Ile Leu Glu Asn Glu Asp Glu Gln Asn Ser Pro Pro Lys Lys Gly Lys Arg Gly Arg Pro Pro Lys Pro 1285 1290 Leu Gly Gly Gly Thr Pro Lys Glu Glu Pro Thr Met Lys Thr Ser Lys Lys Gly Ser Lys Lys Lys Ser Gly Pro Pro Ala Pro Glu Glu Glu Glu Glu Glu Glu Arg Gln Ser Gly Asn Thr Glu Gln Lys Ser Lys Ser Lys Gln His Arg Val Ser Arg Arg Ala Gln Gln Arg Ala Glu Ser Ser Glu Ser Ser Ala Ile Glu Ser Thr Gln Ser Thr Pro Gln Lys Gly Arg Gly 1370 1375 Arg Pro Ser Lys Thr Pro Ser Pro Ser Gln Pro Lys Lys Asn Val